



## Adhesive-Bonded Timber-Concrete Composites - Experimental Investigation of Thermal-Hygric Effects

<https://research.thinkwood.com/en/permalink/catalogue1519>

Author: Werner Seim  
Lars Eisenhut  
Sonja Kühlborn

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Format: Conference Paper

Material: Timber-Concrete Composite

Application: General Application

Topic: Serviceability  
Mechanical Properties

Keywords: Climate  
Long-term  
Shear Strength  
Deformation  
Temperature  
Moisture Content

Language: English

Conference: World Conference on Timber Engineering

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Notes: August 22-25, 2016, Vienna, Austria  
p. 597-605

### Abstract:

The advantages of the two different building construction materials, timber and concrete, can be used effectively in adhesive-bonded timber-concrete composite constructions. The long-term behavior was investigated experimentally on small-scale...

Online Access: Free

### Resource Link

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# Numerical Modeling of Thermal-Hygric Effects on Adhesive-Bonded Timber-Concrete Composites

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Author: Werner Seim  
Lars Eisenhut  
Sonja Kühlborn

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Serviceability

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## Abstract:

The long-term behavior of adhesive-bonded timber-concrete composites is influenced by climatic changes in temperature and relative humidity because of the different properties of wood, concrete and adhesive. Threedimensional material models, which take into account the hygrothermal and time-dependent behavior, were developed...

Online Access: Free

## Resource Link

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